

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P579748

Luminaire Tested: **HCC4S10D010MW-HM40525840-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S10D010MW-HM40525840-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

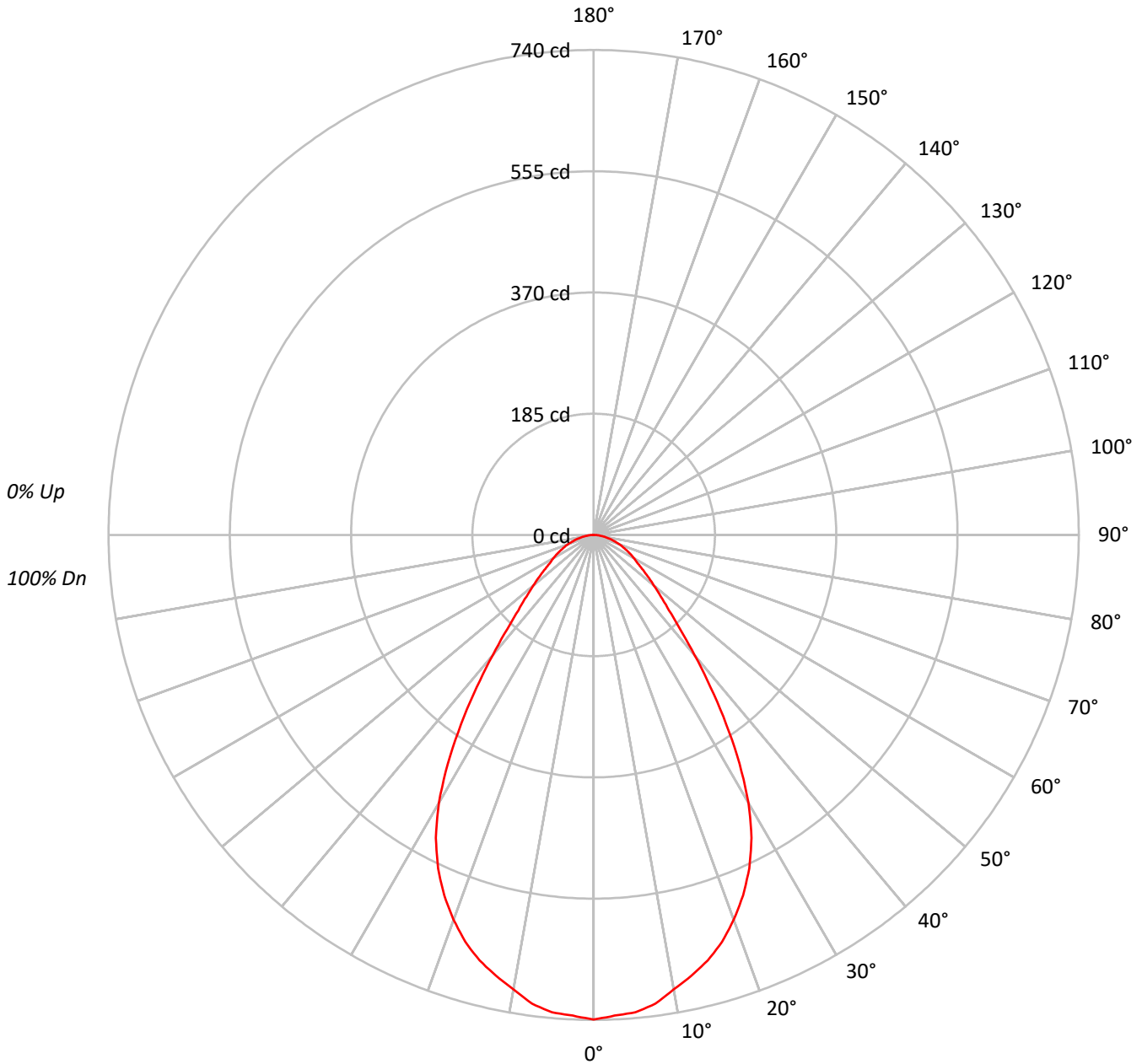
Lumens per Lamp: N/A  
Luminaire Lumens: 1038.2 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89	
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79	
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71	
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64	
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58	
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52	
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48	
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44	
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41	
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38	

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	91214
5°	90535
10°	88175
15°	85851
20°	82012
25°	76405
30°	67283
35°	53063
40°	38515
45°	28311
50°	23008
55°	19311
60°	17490
65°	16082
70°	14966
75°	13678
80°	12360
85°	10614



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.9	6.6
10°-20°	188.6	18.2
20°-30°	255.6	24.6
30°-40°	219.4	21.1
40°-50°	129.5	12.5
50°-60°	82.1	7.9
60°-70°	55.2	5.3
70°-80°	30.4	2.9
80°-90°	8.5	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	513.2	49.4
0°-40°	732.5	70.6
0°-60°	944.1	90.9
0°-90°	1038.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1038.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	740	
5°	731	69
15°	672	189
25°	561	256
35°	352	219
45°	162	130
55°	90	82
65°	55	55
75°	29	30
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	739.5
2.5°	734.2
5°	731.2
7.5°	721.4
10°	704.0
12.5°	688.9
15°	672.3
17.5°	651.2
20°	624.8
22.5°	595.4
25°	561.4
27.5°	521.4
30°	472.4
32.5°	414.2
35°	352.4
37.5°	292.8
40°	239.2
42.5°	194.7
45°	162.3
47.5°	138.8
50°	119.9
52.5°	104.1
55°	89.8
57.5°	78.5
60°	70.9
62.5°	63.4
65°	55.1
67.5°	48.3
70°	41.5
72.5°	34.7
75°	28.7
77.5°	22.6
80°	17.4
82.5°	12.1
85°	7.5
87.5°	3.1
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)